

Technical data

Temperature range:

- fixed installed: -30 °C up to +90 °C
- during installation and application with bending: -5 °C up to +50 °C
- at short circuit of max. 5 s: up to 160 °C

Nominal voltage: $U_0/U = 0,6/1\text{kV}$

Test voltage: 4 kV

Maximal tensile strength of Cu conductor: 50 N/mm²

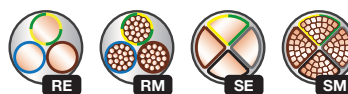
Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to **IEC 60332-1** / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B)

Minimal inner bending radius: (D = external cable diameter)

- 15D single core
- 12D multi core

Construction

- Conductor:** Cu, class 1 or 2 acc. to BS EN 60228:2005 / IEC 60228 / HD 383 / DIN VDE 0295
 - class 1: solid, round (RE)
 - class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm² are compacted
- Insulation:** XLPE-compound DIX 3
 - concentrically stranded cores, colour marked acc. to HRN HD 308 S2 / VDE 0293-308
 - with or without protective green-yellow conductor
- Filler:** extruded elastomer or plastomer compound or wrapped thermoplastic tapes
- Armour:**
 - single-core: a layer of round aluminium wires (AWA)
 - multi-core: a layer of round galvanized steel wires (SWA)
- Sheath:** PVC compound
 - **sheath colour:** black



Core colour marking: acc. to HD 308 S2 / VDE 0293-308

Number of cores	With protective conductor	Without protective conductor
2	-	bu ●, bn ●
3	gn/ye ●, bu ●, bn ●	bn ●, bk ●, gy ●
4	gn/ye ●, bn ●, bk ●, gy ●	bu ●, bn ●, bk ●, gy ●
5	gn/ye ●, bu ●, bn ●, bk ●, gy ●	bu ●, bn ●, bk ●, gy ●, bk ●
	NYRY-JZ	NYRY-OZ
> 5	gn/ye ●, black cores with white numbering ⑦	black cores with white numbering ⑦

Application

Distribution and signal power cable for static application, mostly in ground, but also in water, within and outside facilities, in cable canals, in concrete. Used in electric power plants and other electric plants, in industry, metropolitan networks and for connection of signalling devices in industry, traffic and similar.

Resistant to mechanical loads, able to sustain heavier mechanical tensile strains, could be laid slantingly or vertically, same as on grounds exposed to land-sliding.

SWA Cable

Power and signal cable 0,6/1 kV, XLPE insulated and PVC sheathed, with armour of round galvanized steel wires

Dimensions - number of cores x conductor cross-section	Nominal Thickness of Insulation mm	Nominal Diameter mm		Nominal Weight kg/km	Packing*
		Under Armour mm	Overall mm		
N x mm ²	mm	mm	mm	kg/km	
BS5467 Cu/XLPE/AWA/PVC					
1 x 50	1,0	12,7	17,5	800	CUT
1 x 70	1,1	14,7	20,2	960	CUT
1 x 95	1,1	16,6	22,3	1240	CUT
1 x 120	1,2	18,5	24,2	1510	CUT
1 x 150	1,4	20,8	27,4	1900	CUT
1 x 185	1,6	23,2	30,0	2320	CUT
1 x 240	1,7	26,0	32,8	2930	CUT
1 x 300	1,8	28,6	35,6	3580	CUT
1 x 400	2,0	32,4	40,4	4600	CUT
1 x 500	2,2	36,0	44,2	5770	CUT
1 x 630	2,4	40,0	48,8	7250	CUT
1 x 800	2,6	45,6	55,4	9381	CUT
1 x 1000	2,8	50,6	60,6	11540	CUT
BS5467 Cu/XLPE/SWA/PVC					
2 x 1,5	0,6	7,3	12,1	302	CUT
2 x 2,5	0,7	8,5	13,6	346	CUT
2 x 4	0,7	9,4	14,7	410	CUT
2 x 6	0,7	10,5	15,9	499	CUT
2 x 10	0,7	12,3	18,0	648	CUT
2 x 16	0,7	14,3	20,4	978	CUT
2 x 25	0,9	14,7	20,4	1290	CUT
2 x 35	0,9	16,8	23,3	1500	CUT
2 x 50	1,0	19,0	25,8	1890	CUT
2 x 70	1,1	22,0	29,0	2450	CUT
2 x 95	1,1	25,1	33,1	3300	CUT
2 x 150	1,4	30,9	39,3	4750	CUT
3 x 1,5	0,6	7,8	12,6	330	CUT
3 x 2,5	0,7	9,2	14,1	390	CUT
3 x 4	0,7	10,0	15,3	464	CUT
6 x 6	0,7	11,2	16,6	568	CUT
3 x 10	0,7	13,1	19,5	866	CUT
3 x 16	0,7	15,3	21,6	1152	CUT
3 x 25	0,9	18,9	25,5	1800	CUT
3 x 35	0,9	21,3	28,0	2230	CUT
3 x 50	1,0	21,7	28,5	2490	CUT
3 x 70	1,1	25,2	32,2	3290	CUT
3 x 95	1,1	28,8	37,0	4440	CUT
3 x 120	1,2	32,0	40,4	5470	CUT
3 x 150	1,4	35,9	45,5	6930	CUT
3 x 185	1,6	40,0	49,8	8350	CUT
3 x 240	1,7	44,9	55,1	10400	CUT
3 x 300	1,8	49,8	60,2	12600	CUT
3 x 400	2,0	55,8	66,6	14600	CUT
4 x 1,5	0,6	8,5	13,5	365	CUT
4 x 2,5	0,7	9,9	15,0	438	CUT
4 x 4	0,7	11,0	16,4	532	CUT
4 x 6	0,7	12,3	18,7	764	CUT
4 x 10	0,7	14,5	21,1	1013	CUT
4 x 16	0,7	17,0	22,9	1360	CUT
4 x 25	0,9	21,0	27,6	2160	CUT
4 x 35	0,9	23,6	30,4	2690	CUT
4 x 50	1,0	25,0	32,0	3130	CUT
4 x 70	1,1	29,5	37,7	4500	CUT
4 x 95	1,1	33,3	41,7	5600	CUT
4 x 120	1,2	37,5	47,1	7400	CUT
4 x 150	1,4	41,6	51,4	8780	CUT
4 x 185	1,6	46,4	56,6	10630	CUT
4 x 240	1,7	52,6	63,0	13390	CUT

*) **Packing:** CUT = cable in different lengths on drum or reel, possible cutting at required length

Dimensions - number of cores x conductor cross-section	Nominal Thickness of Insulation mm	Nominal Diameter mm		Nominal Weight	Packing*
		Under Armour	Overall		
N x mm ²	mm	mm	mm	kg/km	
5 x 1,5	0,6	9,7	14,3	410	CUT
5 x 2,5	0,7	11,7	16,3	470	CUT
5 x 4	0,7	13,0	17,8	710	CUT
5 x 6	0,7	14,5	20,0	876	CUT
5 x 10	0,7	17,2	22,9	1165	CUT
5 x 16	0,7	20,0	26,6	1742	CUT
5 x 25	0,9	24,7	31,5	2323	CUT
5 x 35	0,9	27,8	34,8	2932	CUT
5 x 50	1,0	32,4	40,4	4192	CUT
7 x 1,5	0,6	10,2	15,2	470	CUT
7 x 2,5	0,7	12,3	17,1	600	CUT
12 x 1,5	0,6	13,7	19,4	780	CUT
12 x 2,5	0,7	16,3	22,4	1000	CUT
19 x 1,5	0,6	16,2	22,2	1000	CUT
19 x 2,5	0,7	19,9	26,6	1540	CUT
27 x 1,5	0,6	20,0	26,7	1500	CUT
27 x 2,5	0,7	24,0	30,7	1950	CUT
37 x 1,5	0,6	22,3	29,0	1800	CUT
37 x 2,5	0,7	26,9	33,8	2350	CUT

*) **Packing:** CUT = cable in different lengths on drum or reel, possible cutting at required length